U.S. Maritime Strategy 4.7

Terminal Objective:

- **Upon completion of this unit of instruction, the student will demonstrate knowledge of the operational and administrative organizational structures of the U.S Defense Establishment, from the National Security Organization through individual commands, of U.S. defense strategies, different warfare roles, and “From the Sea” philosophy as applicable to the U.S. Navy.**

Enabling Objectives:

- **4.49 Identify the elements of the U.S. Maritime Strategy, “From the Sea”.**
- **4.50 Describe four key capabilities critical for military success in a crisis response.**
- **4.51 Define the Navy’s key operational capabilities of Command Control, Communications, and Surveillance, Battle Space Dominance, Power Projection, and Force Sustainment.**

Enabling Objectives:

- **4.52 Define “Fleet Fragmentation”.**
- **4.53 List the eight major sea lanes of the world.**
- **4.54 State the primary objective of our Merchant Marine fleet.**

Question and Answer Policy

U.S. Maritime Strategy:

- ***U.S.Maritime Strategy*** **is designed to support campaigns in ground theaters through naval operations.**

U.S. Maritime Strategy:

- **The overall goal is to use Maritime power, in combination with our sister services, to *bring about war termination on favorable terms*.**

Two U. S. Maritime Strategy Elements:

I. ***Deterrence***

II. ***Crisis response*** - “critical for military success”

I. 2 Types of Deterrence:

- ***Strategic deterrence*** **- Navy contributes Ballistic Missile sub (SSBN) to TRIAD effort.**
- ***Forward Presence*** **- being forward deployed & port visits.**

II. *4 Types of* Crisis Response:

- ***Sea Control*** **- "Keeping Sea Lanes Open"**
- ***Battlespace Dominance*** **- maintain access for friends - deny access for enemies.**
- ***Power Projection*** **- "Strike warfare from over-the-horizon".**
- ***Force Sustainment*** **- perform ops for extended periods, wherever needed.**

Choke Point Theory:

The means by which *control of the* world's *sea* lanes and a state's maritime interests can be accomplished through *control of a few critical straits, canals, or passages*.

Fleet Fragmentation:

- **The U.S. does not suffer from fleet fragmentation due to the Panama Canal; this allows rapid movement between the 2nd and 3rd fleet.**

- **Russia however lacks free access to open seas, has large distances separating its fleets and semi-enclosed port areas; they subsequently added a network of canals.**

Ships
Aircraft Carriers

Nimitz Class (CVN)

Ship Characteristics

252 Feet Wide Flight Deck
1,092 Feet in Overall Length
134 Feet Beam
Approx. 97,000 tons full load displacement
Max speed more than 30+ knots
Aircraft: 85

-Nimitz (CVN68)
-Dwight D. Eisenhower (CVN69)
-Carl Vinson (CVN70)
-Theodore Roosevelt (CVN71)
-Abraham Lincoln (CVN72)
-George Washington (CVN73)
-John C. Stennis (CVN74)
-Harry S. Truman (CVN75)
-Ronald Reagan (CVN76)

(9) Nuclear Ships

Ships

Destroyers

Spruance (DD)

-Spruance (DD963)
-Paul F. Foster (DD964)
-Kinkaid (DD965)
-Hewitt (DD966)
-Elliot (DD967)
-Arthur W. Radford (DD968)
-Peterson (DD969)
-Caron (DD970)
-David R. Ray (DD971)
-Oldendorf (DD972)
-John Young (DD973)
-O'Brien (DD975)
-Briscoe (DD977)
-Stump (DD978)
-Moosbrugger (DD980)
-John Hancock (DD981)

-Nicholson (DD982)
-Cushing (DD985)
-O'Bannon (DD987)
-Thorn (DD988)
-Deyo (DD989)
-Fife (DD991)
-Fletcher (DD992)
-Hayler (DD997)

Ship Characteristics

Builder: Ingalls Shipbuilding
Power Plant: Four General Electric LM 2500 Gas Turnbines, Two Shafts, 80,000 Shaft Horsepower

Length: 563 Ft
Beam: 55 Ft
Displacement: 9,100 Tons
Speed: 33 Knots
Aircraft: 2 SH-60 Seahawk LAMPS III Helicopters
Crew: 30 Officers, 352 Enlisted

Armament: 8 Harpoon, Tomahawk ASM/LAM, VLS or ABL
NATO Sea Sparrow Point Defense AAW Missiles

(31) Destroyers

SHIPS

Amphibious Warfare Ships

Ship Characteristics

Builders: Ingalls Shipbuilding, Pascagoula, MS
Power Plant: 2 Boilers, 2 Geared Steam Turbines, 2 Shafts, 70,000 Total Shaft Horsepower
Lenght: 820 Ft Beam: 106 Ft
Displacement: 39,400 Tons Speed: 24 Knots
Aircraft: (Actual mix depends upon mission)
9 CH-53 Sea Stallion Helicopters
12 CH-46 Sea Knight Helicopters
6 AV-8B Harrier Attack Planes
Crew: 82 Officers, 882 Enlisted Marine Det. 1,900+
Armament: 2 RAM Launchers, 2 - 5"/54 Cal. MK 45 Lightweight Guns, 2 Phalanx 20 MM CIWS Mount, 6 - 25 MM MK 38 Machine Guns

Tarawa (LHA)

- Tarawa (LHA1)
- Saipan (LHA2)
- Belleau Wood (LHA3)
- Nassau (LHA4)
- Peleliu (LHA5)

(5) Amphibious Assault Ships

Ships

Amphibious Warfare Ships

Ship Characteristics

Builders: Ingalls Shipbuilding, Pascagoula, MS
Power Plant: 2 Boilers, 2 Geared Steam Turbines, 2 Shafts, 70,000 Horsepower
Lenght: 844 Ft Beam: 106 Ft
Displacement: 40,500 Tons Speed: 20+ Knots
Aircraft: Assault: 42 CH-46 Sea Knight Helicopters
Sea Control: 20AV-8B Harrier Attack Planes; 6 ASW Helicopters
Crew: 104 Officers, 1,004 Enlisted
Marine Det: 1,894

WASP CLASS (LHD)

-Wasp (LHD 1)
-Essex (LHD 2)
-Kearsarge (LHD 3)
-Boxer (LHD 4)
-Bataan (LHD 5)
-Bonhomme Richard (LHD 6)

(6) Amphibious Assault Ships

Ships

Amphibious Warfare Ships

- -Whidbey Island (LSD 41)
- -Germantown (LSD 42)
- -Fort McHenry (LSD 43)
- -Gunston Hall (LSD 44)
- -Comstock (LSD 45)
- -Tortuga (LSD 46)
- -Rushmore (LSD 47)
- -Ashland (LSD 48)
- -Harpers Ferry (LSD 49)
- -Carter Hall (LSD 50)
- -Oakhill (LSD 51)
- -Pearl Harbor (LSD 52)

Whidbey Island Class (LSD)

Ship Characteristics

Length: 609 Ft Beam: 84 Ft
Displacement: 10,560 Tons (light), 15,165 Tons (loaded)

Aircraft: 2 SH-60 Seahawk LAMPS III Helicopters

Propulsion: 4 Colt Industries 16-Cylinder PC2.5V Diesels (Developing 33,000 combined Shaft Horsepower), 2 Five-Blade Hydro-Mechancially Controlled Pitch Propellers.

(16) Dock Landing Ships

e are only two ships designed for an amphibious command ship role.

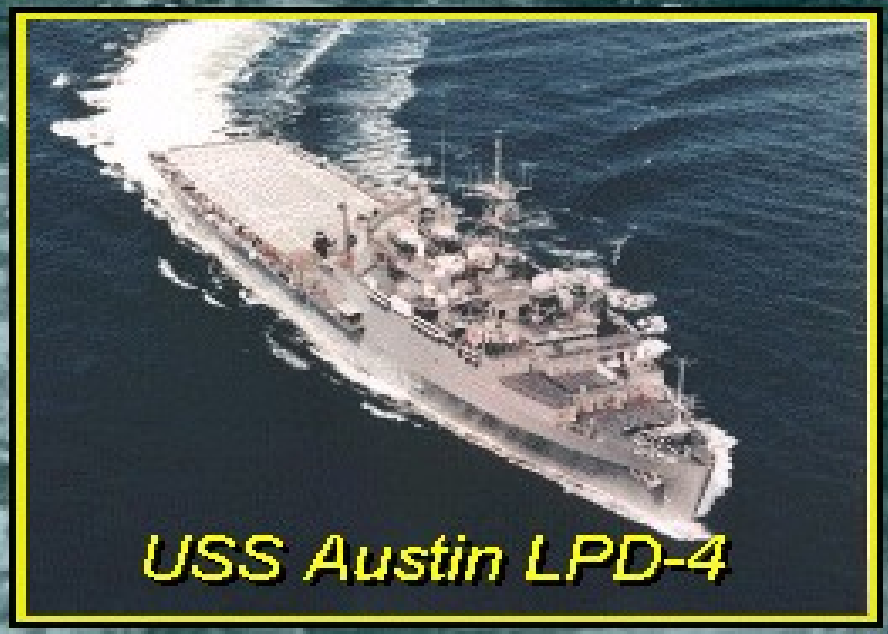
***ue Ridge* became the Seventh Fleet command ship in 1979,**

***USS Mount Whitney* became the Second Fleet command ship in 1981.**

USS MOUNT WHITNEY (LCC)

Ships
Amphibious Warfare Ships

Austin Class (LPD)


USS Austin LPD-4

Ship Characteristics

Builders: LPD 4-6, New York Naval Shipyard
LPD 7 and LPD 8, Ingalls Shipbuilding
LPD 9, 10, 12-15 Lockheed Shipbuilding
Unit Cost: $235-419 Million
Power Plant: 2 Boilers, 2 Steam Turbines, 2 Shafts, 24,000 Shaft Horsepower
Lenght: 570 Ft Beam: 84 Ft
Displacement: 17,000 Tons Speed: 21 Knots
Aircraft: Up to 6 CH-46 Sea Knight Helicopters
Crew: 24 Officers, 396 Enlisted
Armament: 225MM Mk 38 Guns, 2 Phalanx CIWS, 8 .50 Caliber Machine Guns

- Austin (LPD 4)
- Odgen (LPD 5)
- Duluth (LPD 6)
- Cleveland (LPD 7)
- Dubuque (LPD 8)
- Dener (LPD 9)
- Juneau (LPD 10)
- Shreveport (LPD 12)
- Nashville (LPD 13)
- Trenton (LPD 14)
- Ponce (LPD 15)

(12) Amphibious Assault Ships

Ships
Mine Warfare Ships

Avenger Mine Countermeasure Ships Class (MCM)

Ardent (MCM-12)

Ship Characteristics

Builders: Peterson Shipbuilders, Stugeon Bay, Wisconsin, Marinette Marine, Marinette, Wisconsin
Power Plant:
4 Diesels (600 Horsepower Each), 2 Shafts with Controllable Pitch Propellers

Lenght: 224 Ft **Beam: 39 Ft**
Displacement: 1,312 Tons **Speed: 14 Knots**
Crew: 8 Officers, 76 Enlisted
Deployed: Sept. 12, 1987

- Avenger (MCM 1)
- Defender (MCM 2)
- Sentry (MCM 3)
- Champion (MCM 4)
- Guardian (MCM 5)
- Devastator (MCM 6)
- Patriot (MCM 7)
- Scout (MCM 8)
- Pioneer (MCM 9)
- Warrior (MCM 10)
- Gladiator (MCM 11)
- Ardent (MCM 12)
- Dextrous (MCM 13)
- Chief (MCM 14)

(14) Mine Countermeasure Ships

Ships
Mine Warfare Ships

Osprey Minehunter Coastal Class (MHC)

Pelican (MHC-53)

-Osprey (MHC 51)
-Heron (MHC 52)
-Pelican (MHC 53)
-Robin (MHC 54)
-Oriole (MHC 55)
-Kingfisher (MHC 56)
-Cormorant (MHC 57)
-Blackhawk (MHC 58)
-Falcon (MHC 59)
-Cardinal (MHC 60)
-Raven (MHC 61)
-Shrike (MHC 62)

Ship Characteristics

Builders:
Intermarine USA, Savannah, GA
Avondale Industries In., Gulfport, MS
Power Plant:
24 Diesels (800 Horsepower Each), 2 Voith-Schneider (Cycloidal) Propulsion Systems)

Lenght: 188 Ft
Beam: 36 Ft
Displacement: 893 Tons
Speed: 10 Knots
Crew: 5 Officers, 46 Enlisted

(11) Coastal Minehunter Ships

Ships
Underway Replenishment

Ship Characteristics

Length: 753 Ft
Beam: 107 Ft
Displacement: 48,500 Tons

Speed: 30+Knots

Propulsion:
4 General Electric LM-2500 Gas Turbine Engines (105,000 Shaft HP)
2 Reversing Reduction Gears (RRGs)
4 Reversing Convertoer Coupling (RRCs)
2 Shafts with 23-Ft Fixed-Pitch Propellers

Supply Class Fast Combat Support Ships (AOE)

- -Supply (AOE 6)
- -Rainier (AOE 7)
- -Arctic (AOE 8)
- -Bridge (AOE 10)

(4) Fast Combat Support

Ships
Underway Replenishment

- Sacramento (AOE 1)
- Camden (AOE 2)
- Seattle (AOE 3)
- Detroit (AOE 4)

Sacramento Class Fast Combat Support Ships (AOE)

Ship Characteristics

Builders: Puget Sound Naval Shipyard, Bremerton, WA
Keel Laid: 30 Jun 1961
Launched: 14 Sep 1963
Commissioned: 14 Mar 1964
Completed: 28 May 1964

Power Plant: 4 Boilers, 2 Steam Turbines producing 50,000 Horsepower at 4,829 RPM

Lenght: 792 Ft
Beam: 107 Ft
Speed: 27+ Knots
Displacement:
19,200 Tons (light)
53,600 Tons (Fully Loaded)

Sacramento (AOE-1)

(4) Fast Combat Support Ships

IMPORTS:

The United States imports over *70* strategic raw materials for industry -- 99% by sea.

Manganese 98% **Tungsten 59%**

Tin 81% **Nickel 77%**

Bauxite 93% **Chromium 90%**

Cobalt 90% ***OIL ??%***

U.S. Merchant Fleet:

- Primary objective of the Merchant Marine force is to pursue commercial interests.

***Merchant Vessel Types*:**

- **Tankers**
- **Containerships**
- **Break-Bulk Ships**
- **Roll-On/Roll-Off**
- **Cruise Ships**
- **Fishing Ships**

Tanker Ship

Container Ship

Break-Bulk
Ship

Break-Bulk Ship

RO-RO Ship

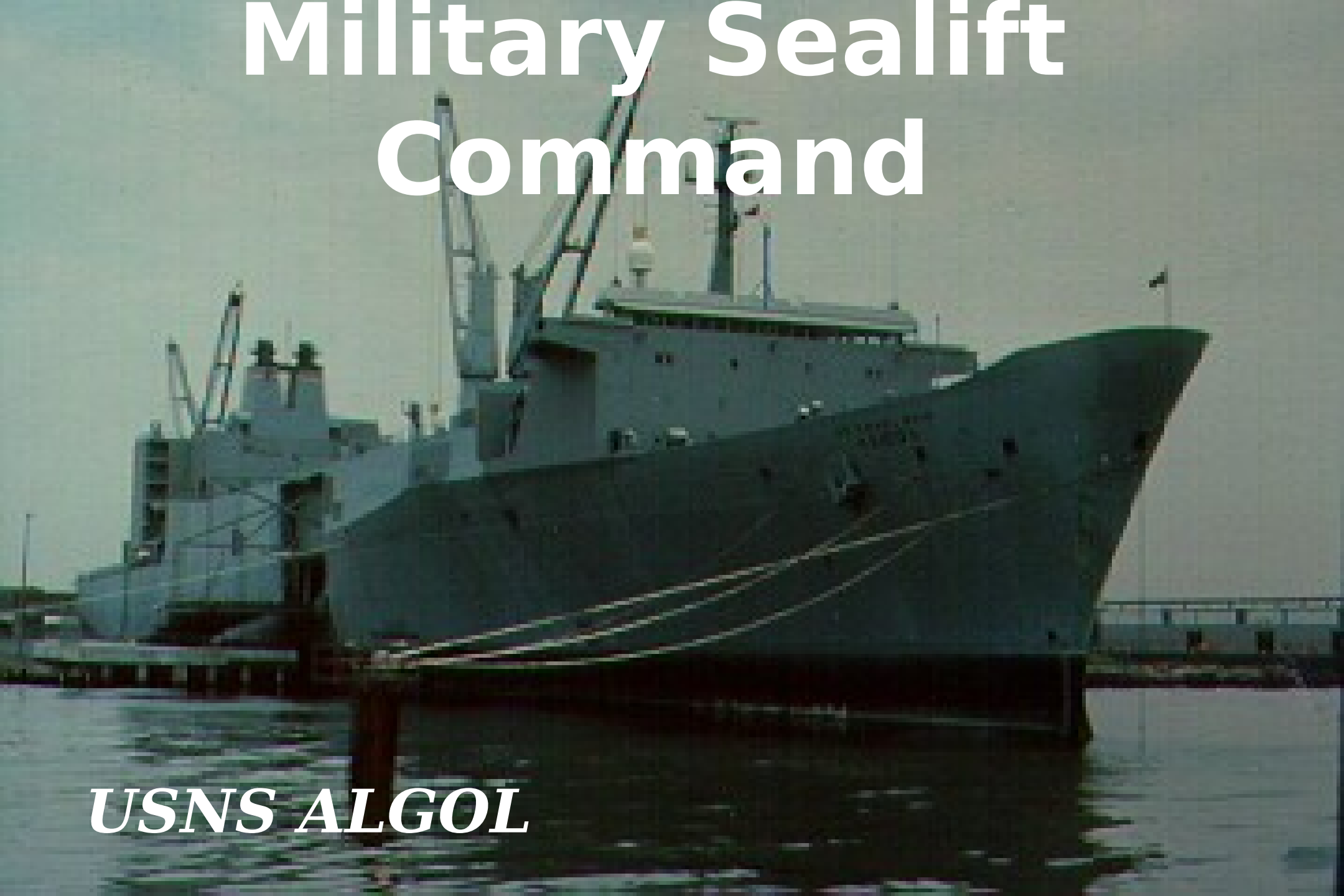
Military Sealift Command: (MSC)

- Provides government owned, chartered or privately owned ships for immediate defense needs.
- Supports Military Operations.
- TRANSCOM owns these ships.

Military Sealift Command

AO and AOE

Military Sealift Command



USNS ALGOL

Military Sealift Command

Space Command Ships

Military Sealift Command

USNS Mercy

Military Sealift Comma
USNS Comfort

Military Sealift Command

Prepositioned Ship

Replenishment-at-Sea:

- ***Standard Underway Replenishment*** **(UNREP) is the transfer of fuel, munitions, supplies, and personnel from one vessel to another underway**

- ***Vertical Replenishment*** **(VERTREP)is the transfer of same materials except fuel**

Dual Refueling

SH-60 Refuels from DDG

LPD Refueled by MSC

MSC Refueling the USS Stennis

SH-60 Refueling from DDG

CH-46 VERTREP OPS

CH-46 VETREP of Bombs

HW
14
HC-6
Det 5
USS SUPPLY

VERTREP to Task Force

IN
SUMMARY

What does *Forward from the Sea* mean?

- **Forward deployed forces that are able to quickly respond.**

Define U.S. Maritime Strategy

- **Designed to support campaigns in ground theater of operations – to bring about war termination under favorable terms.**

List the 2 elements of U.S. Maritime Strategy.

- Deterrence
- Crisis Response

What are two ways that we deter aggression?

- **Strategic Deterrence**
- **Forward Presence**

List the 4 operational capabilities critical for military success.

- Sea Control
- Battle Space Dominance
- Power Projection
- Force Sustainment

What is the *corner stone* of U.S. Defense Strategy?

- **Deterring the outbreak of war.**

What is the primary mission of an aircraft carrier?

- Deterrence

What is the primary objective of the Merchant Marine force?

- To pursue commercial interests.

The Military Sealift Command provides the government with what?

- Provides govt owned, chartered, or privately owned ships for immediate defense needs.

Merchant vessels may include what type of ships?

- Tankers
- Container Ships
- Break Bulk Ships
- RO/RO
- Cruise Ships
- Fish and Chips

What is a RO/RO ship?

- **It loads/off-loads wheeled cargo via a long ramp - a “floating garage”.**

Define choke point theory

- **It is accomplished through *control of critical straits, canals, and passages*.**

Why does the U.S. Navy NOT suffer from fleet fragmentation?

- The Panama Canal

What are the 2 types of replenishment at sea (RAS)?

- **Standard Underway Replenishment (UNREP)**
- **Vertical Replenishment (VERTREP)**

Any questions?

EXTREME MACHINES

“CARRIERS”

4.7